

BATTERY**Publication number:** JP2004273153**Publication date:** 2004-09-30**Inventor:** UGAWA SHINSAKU; FUKAHORI HIRONORI**Applicant:** SONY CORP**Classification:**

- **international:** *H01M10/40; H01M4/02; H01M10/36; H01M4/02; (IPC1-7): H01M10/40; H01M4/02*

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US7063916 (B2)

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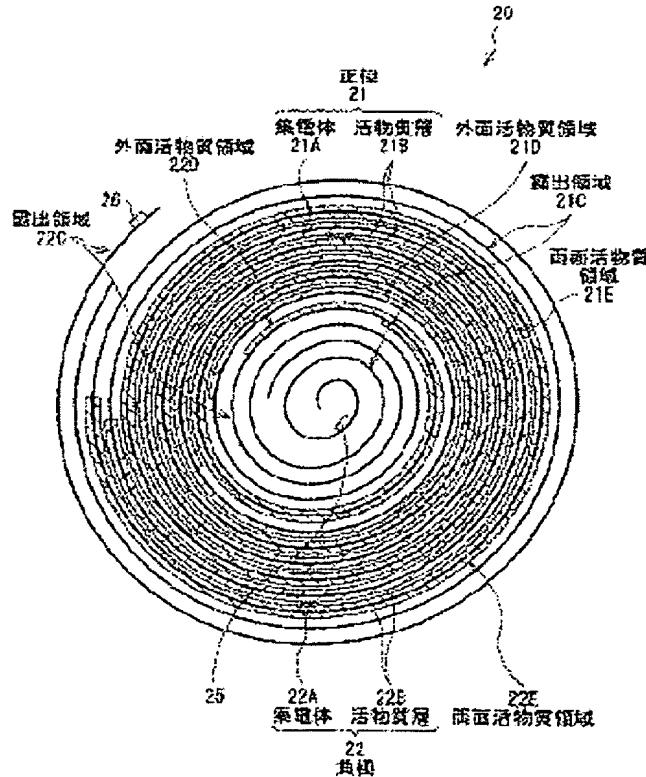
CN1246928C (C)

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PROBLEM TO BE SOLVED: To provide a battery whose capacity and cycle characteristic can be increased.

SOLUTION: An electrode roll 20 comprising a positive electrode 21 and a negative electrode 22 stacked via a separator 23 is provided inside a battery can. The separator 23 is impregnated with an electrolyte. The electrolyte contains a low-viscosity solvent such as propylene carbonate, ethylene carbonate, dimethyl carbonate, diethyl carbonate, or ethylmethyl carbonate; a carbonic ester of an unsaturated compound such as vinyl ethylene carbonate or vinylene carbonate; and a lithium salt. The content of the propylene carbonate is not less than 5 mass% nor more than 20 mass% and the content of the carbonic ester not less than 0.3 mass% nor more than 3 mass%.

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